

DIABETES IN UPDON

Estimated Number of Persons With Diabetes (PWD) in UPDON

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **19,040 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **230 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **180 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **7,830 adults have diabetes but are not aware of it.**⁴ Among adults, **52,085 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in UPDON in 2002 Diagnosed with Diabetes¹

Age Group	Total*	Female	Male	White
18-44	2,770	1,420	1,350	2,460
45-54	3,510	1,960	1,550	3,190
55-64	4,000	1,770	2,230	3,840
65-74	4,050	2,240	1,810	3,860
75+	4,710	2,750	1,960	4,600
Total	19,040	10,140	8,900	17,950
(95% CI**)	(±2,000)	(±1,330)	(±1,500)	(±1,910)

* Difference in totals is due to presence of 1,090 "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in UPDON may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the 6th leading cause of death in Michigan. Diabetes was the primary cause of death for 137 individuals (3.9% of all deaths) and a contributing cause in an additional 261 deaths (7.4%).⁶

Deaths in UPDON of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White Male	African American Female	African American Male
0-44	4 (NA)	0 (NA)	3 (NA)	0 (NA)	0 (NA)
45-54	7 (1.99)	4 (NA)	1 (NA)	0 (NA)	0 (NA)
55-64	11 (2.75)	5 (NA)	6 (NA)	0 (NA)	0 (NA)
65-74	35 (8.64)	15 (7.01)	14 (8.14)	0 (NA)	0 (NA)
75+	80 (16.99)	44 (16.36)	34 (17.80)	0 (NA)	0 (NA)
Total	137 (7.20)	68 (7.13)	58 (6.90)	0 (NA)	0 (NA)

*Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 6,726 hospital discharges of UPDON residents where diabetes was listed among the diagnoses. There were 386 (5.7%) of these hospitalizations that were directly due to diabetes, while an additional 2,260 (33.6%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 6,047 discharges with 414 (7.0%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	414	7.0%	386	5.7%
Hypertension	50	2.3%	52	0.8%
Other CVD	2,060	34.0%	2,208	32.8%
Kidney	52	0.9%	65	1.0%
Pneumonia	237	3.2%	262	3.9%
Other	3,234	52.7%	3,753	55.8%
TOTAL	6,047		6,726	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 50 or 13.0% of the 386 hospital discharges with a primary diagnosis of diabetes. This compares to 71 amputations or 17.2% of the 414 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

Further information can be obtained from:

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by calling (517) 335-8445 or on the WEB at: <http://www.michigan.gov/diabetes>

DIABETES IN ALGER COUNTY

Estimated Number of Persons With Diabetes (PWD) in Alger County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **630 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **10 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **less than 10 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **260 Alger County adults have diabetes but are not aware of it.**⁴ Among Alger County adults, **1,724 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Alger County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	90 (2.4)	40 (2.7)	50 (2.1)	70 (2.4)
45-54	120 (7.4)	60 (8.6)	50 (6.2)	100 (7.0)
55-64	130 (12.3)	50 (10.9)	80 (13.6)	130 (12.2)
65-74	140 (16.1)	80 (17.2)	60 (14.9)	130 (15.6)
75+	150 (17.6)	80 (16.6)	70 (19.0)	150 (17.3)
Total (95% CI**)	630 (7.2) (±60)	310 (7.7) (±40)	310 (6.8) (±50)	580 (7.2) (±60)

* Difference in totals is due to presence of 30 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Alger County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the sixth leading cause of death for Alger County residents. Diabetes was the primary cause of death for 3 individuals (3.4% of all deaths) and a contributing cause in an additional 5 deaths (5.6%).⁶

Deaths in Alger County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	0 (NA)	0 (NA)		0 (NA)
45-54	0 (NA)	0 (NA)		0 (NA)
55-64	0 (NA)	0 (NA)		0 (NA)
65-74	0 (NA)	0 (NA)		0 (NA)
75+	3 (NA)	2 (NA)		1 (NA)
Total	3 (NA)	2 (NA)		1 (NA)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 262 hospital discharges of Alger County residents where diabetes was listed among the diagnoses. There were 7 (2.7%) of these hospitalizations that were directly due to diabetes, while an additional 67 (25.6%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 214 discharges with 11 (5.1%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	11	5.1%	7	2.7%
Hypertension	1	0.5%	2	0.8%
Other CVD	73	34.1%	65	24.8%
Kidney	2	0.9%	0	0.0%
Pneumonia	5	2.3%	8	3.1%
Other	122	57.0%	180	68.7%
TOTAL	214		262	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 2 or 28.6% of the 7 hospital discharges with a primary diagnosis of diabetes. This compares to 0 amputations or 0.0% of the 11 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

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DIABETES IN BARAGA COUNTY

Estimated Number of Persons With Diabetes (PWD) in Baraga County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **530 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **10 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **less than 10 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **220 Baraga County adults have diabetes but are not aware of it.**⁴ Among Baraga County adults, **1,397 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Baraga County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	80 (2.4)	30 (2.7)	40 (2.1)	50 (2.4)
45-54	100 (7.4)	50 (8.6)	40 (6.2)	80 (7.0)
55-64	120 (12.3)	50 (10.9)	70 (13.6)	100 (12.2)
65-74	100 (16.1)	60 (17.2)	40 (14.9)	90 (15.6)
75+	130 (17.6)	80 (16.6)	50 (19.0)	120 (17.3)
Total (95% CI**)	530 (7.2) (±50)	270 (7.7) (±30)	240 (6.8) (±40)	440 (7.2) (±50)

* Difference in totals is due to presence of 60 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Baraga County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the sixth leading cause of death for Baraga County residents. Diabetes was the primary cause of death for 4 individuals (3.7% of all deaths) and a contributing cause in an additional 13 deaths (12%).⁶

Deaths in Baraga County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	0 (NA)	0 (NA)		0 (NA)
45-54	0 (NA)	0 (NA)		0 (NA)
55-64	0 (NA)	0 (NA)		0 (NA)
65-74	0 (NA)	0 (NA)		0 (NA)
75+	4 (NA)	3 (NA)		1 (NA)
Total	4 (NA)	3 (NA)		1 (NA)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 217 hospital discharges of Baraga County residents where diabetes was listed among the diagnoses. There were 11 (5.1%) of these hospitalizations that were directly due to diabetes, while an additional 62 (28.6%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 256 discharges with 19 (7.4%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	19	7.4%	11	5.1%
Hypertension	2	0.8%	1	0.5%
Other CVD	85	33.2%	61	28.1%
Kidney	4	1.6%	3	1.4%
Pneumonia	6	2.3%	4	1.8%
Other	140	54.7%	137	63.1%
TOTAL	256		217	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 2 or 18.2% of the 11 hospital discharges with a primary diagnosis of diabetes. This compares to 4 amputations or 21.1% of the 19 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

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DIABETES IN CHIPPEWA COUNTY

Estimated Number of Persons With Diabetes (PWD) in Chippewa County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **2,070 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **50 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **20 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **880 Chippewa County adults have diabetes but are not aware of it.**⁴ Among Chippewa County adults, **5,983 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Chippewa County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	400 (2.4)	170 (2.7)	220 (2.1)	290 (2.4)
45-54	400 (7.4)	200 (8.6)	190 (6.2)	320 (7.0)
55-64	440 (12.3)	190 (10.9)	250 (13.6)	390 (12.2)
65-74	430 (16.1)	230 (17.2)	200 (14.9)	380 (15.6)
75+	400 (17.6)	230 (16.6)	170 (19.0)	370 (17.3)
Total (95% CI**)	2,070 (7.2) (±250)	1,020 (7.7) (±150)	1,030 (6.8) (±200)	1,750 (7.2) (±200)

* Difference in totals is due to presence of 310 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Chippewa County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the fifth leading cause of death for Chippewa County residents. Diabetes was the primary cause of death for 17 individuals (5.3% of all deaths) and a contributing cause in an additional 24 deaths (7.5%).⁶

Deaths in Chippewa County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	1 (NA)	0 (NA)		0 (NA)
45-54	2 (NA)	0 (NA)		0 (NA)
55-64	2 (NA)	1 (NA)		1 (NA)
65-74	6 (NA)	1 (NA)		1 (NA)
75+	6 (NA)	0 (NA)		5 (NA)
Total	17 (8.21)	2 (NA)		7 (8.24)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 857 hospital discharges of Chippewa County residents where diabetes was listed among the diagnoses. There were 51 (6.0%) of these hospitalizations that were directly due to diabetes, while an additional 362 (42.2%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 636 discharges with 43 (6.8%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	43	6.8%	51	6.0%
Hypertension	4	0.6%	15	1.8%
Other CVD	218	34.3%	347	40.5%
Kidney	7	1.1%	9	1.1%
Pneumonia	24	3.8%	22	2.6%
Other	340	53.5%	413	48.2%
TOTAL	636		857	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 6 or 11.8% of the 51 hospital discharges with a primary diagnosis of diabetes. This compares to 7 amputations or 16.3% of the 43 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
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DIABETES IN DELTA COUNTY

Estimated Number of Persons With Diabetes (PWD) in Delta County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **2,370 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **20 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **20 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **980 Delta County adults have diabetes but are not aware of it.**⁴ Among Delta County adults, **6,639 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Delta County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	310 (2.4)	180 (2.7)	140 (2.1)	300 (2.4)
45-54	450 (7.4)	260 (8.6)	190 (6.2)	420 (7.0)
55-64	500 (12.3)	230 (10.9)	270 (13.6)	490 (12.2)
65-74	530 (16.1)	290 (17.2)	240 (14.9)	510 (15.6)
75+	580 (17.6)	340 (16.6)	240 (19.0)	570 (17.3)
Total (95% CI**)	2,370 (7.2) (±240)	1,300 (7.7) (±170)	1,080 (6.8) (±170)	2,290 (7.2) (±240)

* Difference in totals is due to presence of 100 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Delta County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the fifth leading cause of death for Delta County residents. Diabetes was the primary cause of death for 14 individuals (3.4% of all deaths) and a contributing cause in an additional 34 deaths (8.3%).⁶

Deaths in Delta County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	0 (NA)	0 (NA)	0 (NA)	0 (NA)
45-54	1 (NA)	1 (NA)	0 (NA)	0 (NA)
55-64	0 (NA)	0 (NA)	0 (NA)	0 (NA)
65-74	4 (NA)	2 (NA)	2 (NA)	2 (NA)
75+	9 (15.52)	5 (NA)	4 (NA)	4 (NA)
Total	14 (5.91)	8 (6.45)	6 (NA)	6 (NA)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 937 hospital discharges of Delta County residents where diabetes was listed among the diagnoses. There were 40 (4.3%) of these hospitalizations that were directly due to diabetes, while an additional 341 (36.4%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 800 discharges with 50 (6.3%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	50	6.3%	40	4.3%
Hypertension	7	0.9%	10	1.1%
Other CVD	277	34.6%	331	35.3%
Kidney	3	0.4%	4	0.4%
Pneumonia	35	4.4%	59	6.3%
Other	428	53.5%	493	52.6%
TOTAL	800		937	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 6 or 15.0% of the 40 hospital discharges with a primary diagnosis of diabetes. This compares to 1 amputation or 2.0% of the 50 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

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DIABETES IN DICKINSON COUNTY

Estimated Number of Persons With Diabetes (PWD) in Dickinson County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **1,700 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **20 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **20 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **680 Dickinson County adults have diabetes but are not aware of it.**⁴ Among Dickinson County adults, **4,526 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Dickinson County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	220 (2.4)	120 (2.7)	100 (2.1)	220 (2.4)
45-54	320 (7.4)	180 (8.6)	140 (6.2)	300 (7.0)
55-64	330 (12.3)	150 (10.9)	180 (13.6)	320 (12.2)
65-74	340 (16.1)	200 (17.2)	140 (14.9)	330 (15.6)
75+	490 (17.6)	300 (16.6)	190 (19.0)	480 (17.3)
Total (95% CI**)	1,700 (7.2) (±170)	950 (7.7) (±120)	750 (6.8) (±120)	1,650 (7.2) (±170)

* Difference in totals is due to presence of 60 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Dickinson County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the sixth leading cause of death for Dickinson County residents. Diabetes was the primary cause of death for 13 individuals (3.9% of all deaths) and a contributing cause in an additional 30 deaths (8.9%).⁶

Deaths in Dickinson County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	1 (NA)	0 (NA)	1 (NA)	1 (NA)
45-54	1 (NA)	1 (NA)	0 (NA)	0 (NA)
55-64	0 (NA)	0 (NA)	0 (NA)	0 (NA)
65-74	3 (NA)	1 (NA)	2 (NA)	2 (NA)
75+	8 (16.33)	4 (NA)	4 (NA)	4 (NA)
Total	13 (7.65)	6 (NA)	7 (9.46)	7 (9.46)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 485 hospital discharges of Dickinson County residents where diabetes was listed among the diagnoses. There were 31 (6.4%) of these hospitalizations that were directly due to diabetes, while an additional 174 (35.9%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 539 discharges with 51 (9.5%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	51	9.5%	31	6.4%
Hypertension	8	1.5%	4	0.8%
Other CVD	156	28.9%	170	35.1%
Kidney	2	0.4%	4	0.8%
Pneumonia	21	3.9%	25	5.2%
Other	301	55.8%	251	51.8%
TOTAL	539		485	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 2 or 6.5% of the 31 hospital discharges with a primary diagnosis of diabetes. This compares to 6 amputations or 11.8% of the 51 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
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DIABETES IN GOGEBIC COUNTY

Estimated Number of Persons With Diabetes (PWD) in Gogebic County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **1,200 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **10 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **10 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **480 Gogebic County adults have diabetes but are not aware of it.**⁴ Among Gogebic County adults, **2,839 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Gogebic County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	150 (2.4)	70 (2.7)	80 (2.1)	130 (2.4)
45-54	180 (7.4)	100 (8.6)	80 (6.2)	170 (7.0)
55-64	220 (12.3)	100 (10.9)	120 (13.6)	220 (12.2)
65-74	260 (16.1)	150 (17.2)	110 (14.9)	250 (15.6)
75+	390 (17.6)	230 (16.6)	160 (19.0)	380 (17.3)
Total (95% CI**)	1,200 (7.2) (±110)	650 (7.7) (±70)	550 (6.8) (±90)	1,150 (7.2) (±110)

* Difference in totals is due to presence of 60 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Gogebic County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the ninth leading cause of death for Gogebic County residents. Diabetes was the primary cause of death for 3 individuals (1.1% of all deaths) and a contributing cause in an additional 13 deaths (4.7%).⁶

Deaths in Gogebic County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	0 (NA)	0 (NA)		0 (NA)
45-54	0 (NA)	0 (NA)		0 (NA)
55-64	0 (NA)	0 (NA)		0 (NA)
65-74	0 (NA)	0 (NA)		0 (NA)
75+	3 (NA)	1 (NA)		2 (NA)
Total	3 (NA)	1 (NA)		2 (NA)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 293 hospital discharges of Gogebic County residents where diabetes was listed among the diagnoses. There were 31 (10.6%) of these hospitalizations that were directly due to diabetes, while an additional 101 (34.5%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 263 discharges with 18 (6.8%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	18	6.8%	31	10.6%
Hypertension	1	0.4%	1	0.3%
Other CVD	79	30.0%	100	34.1%
Kidney	1	0.4%	1	0.3%
Pneumonia	11	4.2%	18	6.1%
Other	153	58.2%	142	48.5%
TOTAL	263		293	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 4 or 12.9% of the 31 hospital discharges with a primary diagnosis of diabetes. This compares to 5 amputations or 27.8% of the 18 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

Further information can be obtained from:

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DIABETES IN HOUGHTON COUNTY

Estimated Number of Persons With Diabetes (PWD) in Houghton County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **1,990 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **20 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **20 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **780 Houghton County adults have diabetes but are not aware of it.**⁴ Among Houghton County adults, **5,021 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Houghton County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	350 (2.4)	160 (2.7)	180 (2.1)	330 (2.4)
45-54	340 (7.4)	190 (8.6)	150 (6.2)	310 (7.0)
55-64	410 (12.3)	180 (10.9)	230 (13.6)	400 (12.2)
65-74	380 (16.1)	200 (17.2)	180 (14.9)	360 (15.6)
75+	510 (17.6)	300 (16.6)	220 (19.0)	500 (17.3)
Total (95% CI**)	1,990 (7.2) (±220)	1,030 (7.7) (±140)	960 (6.8) (±170)	1,900 (7.2) (±220)

* Difference in totals is due to presence of 100 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Houghton County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the sixth leading cause of death for Houghton County residents. Diabetes was the primary cause of death for 14 individuals (3.6% of all deaths) and a contributing cause in an additional 33 deaths (8.5%).⁶

Deaths in Houghton County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	1 (NA)	0 (NA)		1 (NA)
45-54	0 (NA)	0 (NA)		0 (NA)
55-64	2 (NA)	1 (NA)		1 (NA)
65-74	3 (NA)	1 (NA)		2 (NA)
75+	8 (15.69)	6 (NA)		2 (NA)
Total	14 (7.04)	8 (8.16)		6 (NA)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 696 hospital discharges of Houghton County residents where diabetes was listed among the diagnoses. There were 46 (6.6%) of these hospitalizations that were directly due to diabetes, while an additional 228 (32.8%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 748 discharges with 37 (5.0%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	37	5.0%	46	6.6%
Hypertension	7	0.9%	1	0.1%
Other CVD	299	40.0%	227	32.6%
Kidney	12	1.6%	15	2.2%
Pneumonia	34	4.6%	28	4.0%
Other	359	48.0%	379	54.5%
TOTAL	748		696	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 2 or 4.3% of the 46 hospital discharges with a primary diagnosis of diabetes. This compares to 13 amputations or 35.1% of the 37 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

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DIABETES IN IRON COUNTY

Estimated Number of Persons With Diabetes (PWD) in Iron County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **950 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **10 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **10 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **380 Iron County adults have diabetes but are not aware of it.**⁴ Among Iron County adults, **2,281 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Iron County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	90 (2.4)	50 (2.7)	40 (2.1)	90 (2.4)
45-54	140 (7.4)	80 (8.6)	60 (6.2)	130 (7.0)
55-64	180 (12.3)	80 (10.9)	100 (13.6)	180 (12.2)
65-74	220 (16.1)	120 (17.2)	90 (14.9)	210 (15.6)
75+	320 (17.6)	190 (16.6)	130 (19.0)	320 (17.3)
Total (95% CI**)	950 (7.2) (±80)	520 (7.7) (±60)	420 (6.8) (±60)	930 (7.2) (±80)

* Difference in totals is due to presence of 10 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Iron County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the sixth leading cause of death for Iron County residents. Diabetes was the primary cause of death for 9 individuals (3.8% of all deaths) and a contributing cause in an additional 8 deaths (3.4%).⁶

Deaths in Iron County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	0 (NA)	0 (NA)		0 (NA)
45-54	1 (NA)	1 (NA)		0 (NA)
55-64	0 (NA)	0 (NA)		0 (NA)
65-74	1 (NA)	0 (NA)		1 (NA)
75+	7 (21.88)	5 (NA)		2 (NA)
Total	9 (9.47)	6 (NA)		3 (NA)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 394 hospital discharges of Iron County residents where diabetes was listed among the diagnoses. There were 17 (4.3%) of these hospitalizations that were directly due to diabetes, while an additional 133 (33.8%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 367 discharges with 32 (8.7%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	32	8.7%	17	4.3%
Hypertension	2	0.5%	3	0.8%
Other CVD	124	33.8%	130	33.0%
Kidney	3	0.8%	7	1.8%
Pneumonia	14	3.8%	9	2.3%
Other	192	52.3%	228	57.9%
TOTAL	367		394	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 3 or 17.6% of the 17 hospital discharges with a primary diagnosis of diabetes. This compares to 4 amputations or 12.5% of the 32 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

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DIABETES IN KEWEENAW COUNTY

Estimated Number of Persons With Diabetes (PWD) in Keweenaw County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **160 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **0 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **less than 10 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **70 Keweenaw County adults have diabetes but are not aware of it.**⁴ Among Keweenaw County adults, **435 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Keweenaw County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total	Female	Male	White
18-44	10 (2.4)	10 (2.7)	10 (2.1)	10 (2.4)
45-54	30 (7.4)	20 (8.6)	10 (6.2)	30 (7.0)
55-64	40 (12.3)	20 (10.9)	20 (13.6)	40 (12.2)
65-74	40 (16.1)	20 (17.2)	20 (14.9)	40 (15.6)
75+	40 (17.6)	20 (16.6)	20 (19.0)	40 (17.3)
Total	160 (7.2)	90 (7.7)	80 (6.8)	160 (7.2)
(95% CI*)	(±10)	(±10)	(±10)	(±10)

*95% CI represents the range within which the actual number of persons with diabetes in Keweenaw County may fall with 95% confidence.

Diabetes Deaths

In 2002, there were no diabetes related deaths for Keweenaw County residents.

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 38 hospital discharges of Keweenaw County residents where diabetes was listed among the diagnoses. There were (0.0%) of these hospitalizations that were directly due to diabetes, while an additional 20 (52.6%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 54 discharges with 5 (9.3%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	5	9.3%	0	0.0%
Hypertension	2	3.7%	0	0.0%
Other CVD	21	38.9%	20	52.6%
Kidney	0	0.0%	0	0.0%
Pneumonia	3	5.6%	0	0.0%
Other	23	42.6%	18	47.4%
TOTAL	54		38	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 0 or 0.0% of the 0 hospital discharges with a primary diagnosis of diabetes. This compares to 1 amputation or 20.0% of the 5 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

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DIABETES IN LUCE COUNTY

Estimated Number of Persons With Diabetes (PWD) in Luce County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **420 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **10 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **less than 10 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **170 Luce County adults have diabetes but are not aware of it.**⁴ Among Luce County adults, **1,148 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Luce County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	70 (2.4)	30 (2.7)	40 (2.1)	50 (2.4)
45-54	80 (7.4)	40 (8.6)	30 (6.2)	60 (7.0)
55-64	90 (12.3)	40 (10.9)	50 (13.6)	80 (12.2)
65-74	90 (16.1)	50 (17.2)	40 (14.9)	90 (15.6)
75+	90 (17.6)	50 (16.6)	40 (19.0)	80 (17.3)
Total (95% CI**)	420 (7.2) (±40)	210 (7.7) (±30)	200 (6.8) (±40)	360 (7.2) (±40)

* Difference in totals is due to presence of 50 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Luce County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the third leading cause of death for Luce County residents. Diabetes was the primary cause of death for 9 individuals (9% of all deaths) and a contributing cause in an additional 7 deaths (7%).⁶

Deaths in Luce County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	0 (NA)	0 (NA)		0 (NA)
45-54	0 (NA)	0 (NA)		0 (NA)
55-64	0 (NA)	0 (NA)		0 (NA)
65-74	3 (NA)	2 (NA)		1 (NA)
75+	6 (NA)	4 (NA)		2 (NA)
Total	9 (21.43)	6 (NA)		3 (NA)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 154 hospital discharges of Luce County residents where diabetes was listed among the diagnoses. There were 11 (7.1%) of these hospitalizations that were directly due to diabetes, while an additional 57 (37.0%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 145 discharges with 9 (6.2%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	9	6.2%	11	7.1%
Hypertension	1	0.7%	4	2.6%
Other CVD	49	33.8%	53	34.4%
Kidney	0	0.0%	2	1.3%
Pneumonia	2	1.4%	4	2.6%
Other	84	57.9%	80	51.9%
TOTAL	145		154	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 1 or 9.1% of the 11 hospital discharges with a primary diagnosis of diabetes. This compares to 1 amputation or 11.1% of the 9 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

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DIABETES IN MACKINAC COUNTY

Estimated Number of Persons With Diabetes (PWD) in Mackinac County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **780 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **10 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **10 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **330 Mackinac County adults have diabetes but are not aware of it.**⁴ Among Mackinac County adults, **2,171 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Mackinac County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	90 (2.4)	50 (2.7)	40 (2.1)	70 (2.4)
45-54	140 (7.4)	80 (8.6)	60 (6.2)	110 (7.0)
55-64	180 (12.3)	80 (10.9)	100 (13.6)	160 (12.2)
65-74	200 (16.1)	110 (17.2)	90 (14.9)	180 (15.6)
75+	170 (17.6)	90 (16.6)	80 (19.0)	160 (17.3)
Total (95% CI**)	780 (7.2) (±70)	410 (7.7) (±50)	370 (6.8) (±50)	680 (7.2) (±60)

* Difference in totals is due to presence of 90 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Mackinac County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the eighth leading cause of death for Mackinac County residents. Diabetes was the primary cause of death for 2 individuals (1.6% of all deaths) and a contributing cause in an additional 10 deaths (7.8%).⁶

Deaths in Mackinac County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	0 (NA)	0 (NA)		0 (NA)
45-54	1 (NA)	1 (NA)		0 (NA)
55-64	1 (NA)	0 (NA)		1 (NA)
65-74	0 (NA)	0 (NA)		0 (NA)
75+	0 (NA)	0 (NA)		0 (NA)
Total	2 (NA)	1 (NA)		1 (NA)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 227 hospital discharges of Mackinac County residents where diabetes was listed among the diagnoses. There were 15 (6.6%) of these hospitalizations that were directly due to diabetes, while an additional 73 (32.2%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 217 discharges with 12 (5.5%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	12	5.5%	15	6.6%
Hypertension	3	1.4%	3	1.3%
Other CVD	81	37.3%	70	30.8%
Kidney	3	1.4%	0	0.0%
Pneumonia	4	1.8%	13	5.7%
Other	114	52.5%	126	55.5%
TOTAL	217		227	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 1 or 6.7% of the 15 hospital discharges with a primary diagnosis of diabetes. This compares to 4 amputations or 33.3% of the 12 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

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DIABETES IN MARQUETTE COUNTY

Estimated Number of Persons With Diabetes (PWD) in Marquette County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **3,640 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **40 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **40 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **1,480 Marquette County adults have diabetes but are not aware of it.**⁴ Among Marquette County adults, **10,507 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Marquette County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	610 (2.4)	330 (2.7)	270 (2.1)	570 (2.4)
45-54	780 (7.4)	430 (8.6)	340 (6.2)	710 (7.0)
55-64	770 (12.3)	330 (10.9)	440 (13.6)	760 (12.2)
65-74	720 (16.1)	400 (17.2)	320 (14.9)	690 (15.6)
75+	760 (17.6)	450 (16.6)	310 (19.0)	750 (17.3)
Total (95% CI**)	3,640 (7.2) (±410)	1,940 (7.7) (±280)	1,680 (6.8) (±300)	3,480 (7.2) (±400)

* Difference in totals is due to presence of 160 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Marquette County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the fifth leading cause of death for Marquette County residents. Diabetes was the primary cause of death for 22 individuals (3.5% of all deaths) and a contributing cause in an additional 47 deaths (7.5%).⁶

Deaths in Marquette County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	0 (NA)	0 (NA)		0 (NA)
45-54	0 (NA)	0 (NA)		0 (NA)
55-64	2 (NA)	2 (NA)		0 (NA)
65-74	5 (NA)	4 (NA)		1 (NA)
75+	15 (19.74)	9 (20.45)		6 (NA)
Total	22 (6.04)	15 (8.15)		7 (4.29)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 1,109 hospital discharges of Marquette County residents where diabetes was listed among the diagnoses. There were 62 (5.6%) of these hospitalizations that were directly due to diabetes, while an additional 318 (28.7%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 1,007 discharges with 61 (6.1%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	61	6.1%	62	5.6%
Hypertension	8	0.8%	5	0.5%
Other CVD	325	32.3%	313	28.2%
Kidney	8	0.8%	6	0.5%
Pneumonia	41	4.1%	38	3.4%
Other	564	56.0%	685	61.8%
TOTAL	1,007		1,109	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 14 or 22.6% of the 62 hospital discharges with a primary diagnosis of diabetes. This compares to 11 amputations or 18.0% of the 61 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

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DIABETES IN MENOMINEE COUNTY

Estimated Number of Persons With Diabetes (PWD) in Menominee County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **1,570 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **20 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **10 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **640 Menominee County adults have diabetes but are not aware of it.**⁴ Among Menominee County adults, **4,344 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Menominee County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	210 (2.4)	110 (2.7)	90 (2.1)	200 (2.4)
45-54	300 (7.4)	170 (8.6)	130 (6.2)	270 (7.0)
55-64	330 (12.3)	150 (10.9)	180 (13.6)	320 (12.2)
65-74	340 (16.1)	190 (17.2)	150 (14.9)	330 (15.6)
75+	390 (17.6)	220 (16.6)	160 (19.0)	380 (17.3)
Total (95% CI**)	1,570 (7.2) (±160)	840 (7.7) (±110)	710 (6.8) (±110)	1,500 (7.2) (±160)

* Difference in totals is due to presence of 60 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Menominee County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the fifth leading cause of death for Menominee County residents. Diabetes was the primary cause of death for 16 individuals (5.8% of all deaths) and a contributing cause in an additional 16 deaths (5.8%).⁶

Deaths in Menominee County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	0 (NA)	0 (NA)		0 (NA)
45-54	1 (NA)	0 (NA)		1 (NA)
55-64	4 (NA)	1 (NA)		3 (NA)
65-74	4 (NA)	3 (NA)		1 (NA)
75+	7 (17.95)	4 (NA)		3 (NA)
Total	16 (10.19)	8 (10.00)		8 (11.59)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 632 hospital discharges of Menominee County residents where diabetes was listed among the diagnoses. There were 45 (7.1%) of these hospitalizations that were directly due to diabetes, while an additional 209 (33.1%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 384 discharges with 38 (9.9%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	38	9.9%	45	7.1%
Hypertension	2	0.5%	1	0.2%
Other CVD	124	32.3%	208	32.9%
Kidney	4	1.0%	10	1.6%
Pneumonia	13	3.4%	16	2.5%
Other	203	52.9%	352	55.7%
TOTAL	384		632	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 4 or 8.9% of the 45 hospital discharges with a primary diagnosis of diabetes. This compares to 9 amputations or 23.7% of the 38 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

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DIABETES IN ONTONAGON COUNTY

Estimated Number of Persons With Diabetes (PWD) in Ontonagon County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **560 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **10 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **less than 10 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **240 Ontonagon County adults have diabetes but are not aware of it.**⁴ Among Ontonagon County adults, **1,515 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Ontonagon County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	50 (2.4)	30 (2.7)	20 (2.1)	50 (2.4)
45-54	90 (7.4)	50 (8.6)	40 (6.2)	90 (7.0)
55-64	130 (12.3)	60 (10.9)	70 (13.6)	130 (12.2)
65-74	140 (16.1)	70 (17.2)	70 (14.9)	130 (15.6)
75+	150 (17.6)	90 (16.6)	60 (19.0)	150 (17.3)
Total (95% CI**)	560 (7.2) (±50)	300 (7.7) (±30)	260 (6.8) (±40)	550 (7.2) (±50)

* Difference in totals is due to presence of 10 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Ontonagon County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the fourth leading cause of death for Ontonagon County residents. Diabetes was the primary cause of death for 5 individuals (4.5% of all deaths) and a contributing cause in an additional 7 deaths (6.3%).⁶

Deaths in Ontonagon County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	1 (NA)	0 (NA)		1 (NA)
45-54	0 (NA)	0 (NA)		0 (NA)
55-64	0 (NA)	0 (NA)		0 (NA)
65-74	3 (NA)	0 (NA)		3 (NA)
75+	1 (NA)	0 (NA)		1 (NA)
Total	5 (NA)	0 (NA)		5 (NA)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 229 hospital discharges of Ontonagon County residents where diabetes was listed among the diagnoses. There were 10 (4.4%) of these hospitalizations that were directly due to diabetes, while an additional 57 (24.9%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 211 discharges with 17 (8.1%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	17	8.1%	10	4.4%
Hypertension	0	0.0%	1	0.4%
Other CVD	84	39.8%	56	24.5%
Kidney	2	1.0%	3	1.3%
Pneumonia	9	4.3%	7	3.1%
Other	99	46.9%	152	66.4%
TOTAL	211		229	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 3 or 30.0% of the 10 hospital discharges with a primary diagnosis of diabetes. This compares to 4 amputations or 23.5% of the 17 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
- 5) US Health and Human Services news release, March 27, 2004.
- 6) Michigan Department of Community Health (MDCH) 2002 resident death data files.
- 7) Michigan Inpatient (hospital discharge) Database (MIDB) for 2002.

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DIABETES IN SCHOOLCRAFT COUNTY

Estimated Number of Persons With Diabetes (PWD) in Schoolcraft County

Estimates from the Michigan Behavioral Risk Factor Surveillance System (BRFSS) using a three year average, 2001-2003, indicate that in 2002 approximately **580 adults (aged 18 and up) have been diagnosed with diabetes.**¹ This includes an estimated **10 Latinos/Hispanics (8.65%)** diagnosed with diabetes.² In addition, it is estimated that **less than 10 or 0.32% persons under the age of 18** have been diagnosed with diabetes.³ National studies suggest that an additional **240 Schoolcraft County adults have diabetes but are not aware of it.**⁴ Among Schoolcraft County adults, **1,554 have pre-diabetes** (40.1% of adults 40-74 years of age).⁵

Estimated Number of Persons in Schoolcraft County in 2002 Diagnosed with Diabetes (Rate per 100)¹

Age Group	Total*	Female	Male	White
18-44	70 (2.4)	40 (2.7)	30 (2.1)	60 (2.4)
45-54	100 (7.4)	50 (8.6)	40 (6.2)	90 (7.0)
55-64	130 (12.3)	60 (10.9)	70 (13.6)	120 (12.2)
65-74	130 (16.1)	70 (17.2)	60 (14.9)	120 (15.6)
75+	150 (17.6)	80 (16.6)	60 (19.0)	140 (17.3)
Total (95% CI**)	580 (7.2) (±60)	300 (7.7) (±40)	260 (6.8) (±40)	530 (7.2) (±50)

* Difference in totals is due to presence of 20 of "other races" in the survey and the effects of rounding.

** 95% CI represents the range within which the actual number of persons with diabetes in Schoolcraft County may fall with 95% confidence.

Diabetes Deaths

In 2002, diabetes was the fifth leading cause of death for Schoolcraft County residents. Diabetes was the primary cause of death for 6 individuals (5.4% of all deaths) and a contributing cause in an additional 14 deaths (12.6%).⁶

Deaths in Schoolcraft County of PWD for the Year 2002 with Diabetes Listed as the Primary Cause Number of Deaths (Rates per 1,000 Diabetic Population)

Age Group	Total*	Female	White	Male
0-44	0 (NA)	0 (NA)		0 (NA)
45-54	0 (NA)	0 (NA)		0 (NA)
55-64	0 (NA)	0 (NA)		0 (NA)
65-74	3 (NA)	1 (NA)		0 (NA)
75+	3 (NA)	1 (NA)		1 (NA)
Total	6 (NA)	2 (NA)		1 (NA)

* Any difference in the totals is due to presence of deaths of "other races". NA – Not Able to calculate with 6 or less deaths

Diabetes Hospitalizations Reported in the Michigan Inpatient Data Base (MIDB)⁷ In 2002, there were 196 hospital discharges of Schoolcraft County residents where diabetes was listed among the diagnoses. There were 9 (4.6%) of these hospitalizations that were directly due to diabetes, while an additional 58 (29.6%) involved hypertension and cardiovascular disease, conditions commonly associated with diabetes. In 2000, the comparable figures were 206 discharges with 11 (5.3%) directly attributed to diabetes.

Primary Reason for Hospitalization

Condition	2000		2002	
	Count	Percent	Count	Percent
Diabetes	11	5.3%	9	4.6%
Hypertension	2	1.0%	1	0.5%
Other CVD	65	31.6%	57	29.1%
Kidney	1	0.5%	1	0.5%
Pneumonia	15	7.3%	11	5.6%
Other	112	54.4%	117	59.7%
TOTAL	206		196	

Non-Traumatic Lower Limb Amputations

In 2002, some form of non-traumatic lower limb amputation occurred in 2 or 22.2% of the 9 hospital discharges with a primary diagnosis of diabetes. This compares to 1 amputation or 9.1% of the 11 hospitalizations of persons with diabetes in 2000.

- 1) Michigan 2002 population estimates and the three year (2001-03) average from the Behavioral Risk Factor Surveillance System (BRFSS) - a statewide telephone survey of Michigan residents ages 18 years and older.
- 2) BRFSS data 2001 - 2003 rate of 8.65% ±1.64 Confidence Interval of 95% (CI).
- 3) Blue Cross/Blue Shield of Michigan Paid Claims Data, 2001 and BRFSS 2001-2003 data.
- 4) National Health and Nutrition Examination Survey, III 1988-1994 (NHANES III Series 11, No. 1).
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